Index to The Oil and Gas Journal

Principal Articles Appearing in Issues During First Six Months of 1927 Classified for Ready Reference by Readers

ASSOCIATIONS AND BUREAUS

	Date	Page
Willson, C. O.—Plant Superintendents in Conference	1-20	41
Society of Automotive Engineers Detroit Meeting	2-3	30
A. I. M. E. Petroleum Division Meeting	2-17	35
A. I. M. E. Petroleum Division Meeting	2-24	30
A. I. M. E. Officers	2-24	72
Training of Petroleum Engineers	2-24	72
A. P. I. may take over A. I. M. E. Refining Section	3-3	136
Western Petroleum Refiners Association Convention	3-10	42
Lovejoy, J. M.—A. I. M. E. Petroleum Division	3-17	30
N. P. M. A. transferred to I. O. M. A.	3-17	34
American Association of Petroleum Geologists Meeting	3-31	32
Lockwood, C. D.—Plant Operators Hold Two Meetings	3-31	121
American Chemical Society Meeting	4-14	34
Dameron, J. H.—Natural Gas Association Meets in Dallas	4-14	33
Ziegenhain, W. T.—Mid-Continent Section A. S. M. E.	4-14	149
American Chemical Society Meeting	4-21	39
American Oil Men's Association Meeting	4-21	40
Natural Gas Association, Southwestern Division, Meeting	4-21	41
National Petroleum Association Semiannual Meeting	5-5	33
Natural Gas Association of America Meeting	5-12	38
Association of Natural Gasoline Manufacturers Meeting	5-26	40
Fanning, L. M.—Gas Conservation Committee Meets	6-2	29

CRACKING AND CRACKED GASOLINE

Cracking (see Legislation).		
Willson, C. O.—Secure Cracking in Reducing Still	1-27	32
Corona Discharge in Cracking	2-10	80
Willson, C. O.—New Cracking Process in Operation	2-17	158
Egloff, Gustav, and Jacque C. Morrell—Corrosion in Cracking Equipment	2-17	140
Fanning, L. M.—Cracking Process Improves	3-17	132
Holmes-Manley Cracking Development	3-17	132
Morrell, J. C., and Gustav Egloff—Economic Aspect of Desulphurization	3-17	150
Fanning, L. M.—Cheap Crude's Effect on Cracking	3-31	36
Fanning, L. M.—Cracking Operations Curtailed	4-7	167
Explains Curtailment of Cracking Units	5-12	157
Sachanen, A. and M. Tilitscheyew—Factors in Liquid Phase Cracking	6-23	144

ECONOMIC, FINANCE, ACCOUNTING, VALUATION, ADMINISTRATION

Financial Review—Weekly.		
Security Prices—Weekly.		
Oklahoma Refiners Make Final Effort to Prevent Rate Changes	1-6	30
Oppose Reductions in Freight Rates	1-13	32
Jones, G. H.—Oil Industry Approaching Balance	2-3	32
Thomas, A. E.—Oil and Its Relation to Banking	2-24	32
Knapp, Arthur—Predicts Price of Products Will Rise Rapidly	2-24	149
Kern, C. E.—Keen Competition in Marketing Abroad	3-3	39
Fanning, N. O.—Economic Changes Resulting from Overproduction	3-24	36
Fanning, N. O.—Prices Out of Line With Intrinsic Worth	4-14	31
Keeney, O. P.—Oil Industry Operating Below Cost	5-5	135
Girard, P. C.—Accounting in Refining Industry	5-5	154
Griffith, Karl F.—Fair Return on All Assets	6-16	G-68
Kern, C. E.—Oil "Joker" in Arms Limitation Pact	6-16	46
Accounting Division, American Petroleum Institute	6-16	321
Cadman, Sir John—Tomorrow in Petroleum	6-30	83
Deterding, H. W. I.—Review of Royal Dutch Operations	6-30	83

EQUIPMENT AND SUPPLIES

Equipment and Supply News—Weekly.		
Luty, B. E. V.—Increasing Consumption of Steel	2-10	179
Fanning, N. O.—Enormous Equipment Program of 1927	2-10	180
Fanning, L. M.—A. P. I. Names Committee on Corrosion	2-24	32
McConnell, Glenver—Drilling and Pumping Rig Equipment	4-7	73
Rowley, A. M.—Oil Field Standardization Conference	6-23	29
Lucey, J. F.—Standardization Must Be Sold Industry	6-23	30
A. P. I. to Study Corrosion	6-23	30
Standardization Committee Reports	6-23	32
Bignell, L. G. E.—Field Benefits in Use of Standards	6-23	89
Crook, W. J.—Increasing Strength of Sucker Rods	6-30	79
McLain, W. L.—Urges Use of A. P. I. Tubing	6-30	79

FIRE HAZARD AND SAFETY

Stockman, L. P.—Studying Protection from Lightning	2-3	34
Fanning, L. M.—Industry Acts on Oil Pollution	2-3	108
Miller, H. C.—Prevention of Oil Field Accidents	4-14	75
Newell, H. E.—Progress of Fire Prevention	5-5	168
Ingalls, E. T.—Fire Prevention Applied to Gasoline Plants	6-2	117

FOREIGN—ALASKA

Kern, Charles E.—Naval Oil Reserve in Alaska	4-7	105

FOREIGN—EUROPE

Fanning, L. M.—Desirability of Sharing in Foreign Development	1-6	122
Kern, C. E.—England Encourages Use of Gasoline	3-24	40
Fanning, N. O.—Europe to Get Cheaper Gasoline	4-7	115
Kerns, Charles E.—Boycott of Soviet Oil Trade Factor	6-30	139

FOREIGN—MEXICO

Fanning, L. M.—Mexican Controversy in Deadlock	1-6	29
Points in Controversy in Mexican Law	1-6	29
Fanning, L. M.—Mexican Operations Continuing	1-13	32
Fanning, L. M.—Mexico Refuses Drilling Permits	1-20	41
Fanning, L. M.—Some Mexican Permits Reinstated	2-3	30
Small, W. M.—Mexican Output Reduced	2-17	36
Cause of Shrinkage in Mexico's Output	3-3	35
Fanning, L. M.—Settlement in Mexico Expected	3-17	32
Blardone, George—Mexican Production in 1927	4-21	38
Fanning, L. M.—Mexican Situation Changing	5-5	136
Fanning, L. M.—Mexican Situation Presents Crisis	6-30	39
Fanning, L. M.—Mexican Situation Nearing Crisis	6-30	39

FOREIGN—ASIA

McIntyre, James—Americans will Drill in Iraq	4-14	29

FOREIGN—SOUTH AMERICA

McGrath, Joseph H.—Venezuela to Ship 48,000,000 Bbls.	2-10	180
Changes in Development of Maracaibo Basin, Venezuela	2-24	159
Spellacy, M. A.—Sees Great Oil Country in Colombia	2-24	34
Fanning, N. O.—Eastern Andes Potential Oil Area	3-17	142
Leggitt, F. J.—Developments in Venezuela	4-7	81
Too Much Oil in Maracaibo District	6-9	33

LEGISLATION, LITIGATION, TAXATION

Fanning, L. M. Finish Testimony in Universal Oil Products-Skelly Oil Cracking Suit	1-13	138
Conservation (Proposal Legislation) see under Reserves and Conservation.		
State's Right to Regulate Drilling Declared	1-20	149
Kates Phillip—Income Tax Decision far Reaching	1-20	39
Kern, C. E.—Braden Case up to Supreme Court	1-20	39
Kerns, C. E.—New Antitrust Law Policy Outlined	2-3	29
Kates, Phillip—Oil Industry Endangered by Oxford Oil Decision	2-3	82
Gasoline Taxes Now $205,000,000	2-10	41
Campbell, H. A.—Oil Depletion under Revenue Act	2-10	80
Kates, Phillip—Supreme Court Clarifies Police Power	3-10	40
Kern, C. E.—Depletion Affected by Revenue Act of 1926	3-17	93
State Gasoline Taxes 1926	4-28	92
Lockwood, C. D.—Texas Legislation Proposed for Curtailment	5-12	33
Decision Upholds State Levy at Well	6-2	67
Standard (Indiana) Replies to Universal Suit	6-23	34

LUBRICANTS AND LUBRICATION

	Date	Page
Henderson, L. M. and H. C. Cowles—Measuring Bloom of Lubricating Oils	1-13	156
Kauffman, H. L.—Factors in Reclaiming Crankcase Oil	2-3	130
Kauffman, H. L.—Methods of Recovering Crankcase Oil	2-10	260
Williams, Neil—Changes in Lubricants Manufacture	3-3	136
Northcutt, W. O.—Methods of Lubricating Power Cylinders of Diesel Engines	4-14	170
White, R. B.—Problems of Motor Car Lubrication	4-21	143
Davis, A. L.—Iodine Color of Petroleum Products	5-12	154
Glaucosil as a Purification Agent	6-9	142
Livingstone, C. J., S. P. Marley and W. A. Gruse—Carbon Deposit of Heavy Motor Oils	6-30	146

MOTOR FUEL AND ENGINE DESIGN; ANTIKNOCK FUELS

Willson, C. O.—Conflicting Claims as to Gasoline	1-6	152
Boyd, T. A.—Gasoline Engine as Chemical Energy	1-27	33
Edgar, Graham—Research on Automobile Knock	1-27	33
Morrell, J. C. and Gustav Egloff—Analytical Measuring of Antiknock	1-27	156
Swanson, E. B.—Railroads Use One-fifth of Fuel Oil	1-27	88
McCalmont, A. W.—Auto Engineers Discuss Gasolines	2-3	30
Hill, J. B., L. M. Henderson and S. W. Ferris—Composition of Refinery Gasolines	2-3	148
Boyd, T. A.—Volatility and no Knock Necessary in Motor Fuels	3-10	148
Marley, S. P., D. R. Stevens and W. A. Gruse—Detonation in Petroleum Motor Fuels	3-24	157
Foster, M. E.—Advantage of Greater Volatility	5-5	91
Natural Gasoline Aids Engine Performance	6-2	34

MAPS

The Oil and Gas Journal's Graphic Analysis of Petroleum	1-6	164
Showing in Logan County, Oklahoma, Stimulates Activity	1-13	39
Map of Township 8n, Range 6e, Oklahoma	1-13	46
Maljamar Oil District	1-13	149
Fry Pool in Brown County, Texas	1-20	47
Map of Northeast Mississippi	1-27	89
Thomas-Amerada Pool, Eastland County, Texas	2-3	38
New Well of Logan Oil Co., Sabine Parish, Louisiana	2-10	59
North and West Texas	2-10	120
Saginaw Oil Field, Saginaw, Mich.	2-10	136
Part of Hurdle Area	2-17	42-43
Church & Fields Pool, Crane County, Texas	2-24	31
Huntington Beach Townsite	2-24	75
Two Texas, One Louisiana Field	2-24	97
Yates Pool, Pecos County, Texas	3-3	31
Burbank Leases	3-3	147
Cross Section 54 Miles Oklahoma	3-24	Insert
Permian Basin	3-24	42
New Producing Area in Southwest Texas	3-24	57
Ventura Avenue Field	3-31	35

18 REASONS *for Using* ECLIPSE SAVE-A-LINE

THE large pipe line and gas companies are notoriously shrewd buyers—they are influenced solely by FACTS—the facts of actual performance.

Therefore, when considering and testing Pipe Coatings, the selection of ECLIPSE "Save-A-Line" by the following 18 large pipe line and gas companies, is disinterested evidence of its superiority in endurance and protection:—

Associated Pipe Line Co.
California Petroleum Co.
Coast Counties Gas & Electric Co.
Community Natural Gas Co.
Empire Natural Gas Co.
Gulf Pipe Line Co.
Hall & Briscoe
Hope Engineering & Supply Co.
Houston Gulf Gas Co.
Humble Pipe Line Co.
Indian Territory Illuminating Oil & Gas Co.
Lone Star Gas Co.
Municipal Gas Co.
New York State Gas & Electric Corp.
Provincial Natural Gas Co.
Public Service Electric & Gas Co.
Shell Co. of California
Wilmington Gas Co.

They are now using it regularly. The total of their orders last year ran into hundreds of carloads.

This tough, elastic, non-cracking, non-peeling, heavy filmed coating, ECLIPSE "Save-A-Line," requires no heating and can be applied just as it comes from the package. This eliminates fire hazard and also possible injury to the workmen who handle hot materials. Covers approximately 140 square feet to the gallon.

Let us figure on your requirements. We will be glad to send you sample and quote you prices. Write us.

The Arco Company
Paints—Varnishes—Enamels
Cleveland, Ohio
Eclipse Division

MAPS

	Date	Page
Gulf McElroy Pool, Crane County, Texas	3-31	75
Winkler County, Texas	4-7	32
Seal Beach Oil Field	4-7	33
Venezuela	4-7	81
Detail of Winkler County Pool	4-7	167
New Hunton Lime Pool in Central Oklahoma	4-14	152
Pleasant Hill District, Sabine Parish, Louisiana	4-21	59
Map of West Texas	4-28	59
Geologic Cross Section of West Texas	4-28	60
Tests in King County, Texas	4-28	105
Portion of Seminole City Pool, Township 9-6	4-28	169
West Texas Pools	5-5	29
Winkler County, Texas	5-26	46
Reynosa Escarpment	5-26	58
Map of Bowlegs Pool	6-2	30
Map of Earlsboro Sector	6-2	31
Alamitos Heights	6-2	33
Yates Pool, Pecos County, Texas	6-2	144
Cross Section of Yates Pool	6-2	144
Surface Structure Maps	6-16	38
Map of Morton & Co.'s Well, Panhandle	6-16	48
Principal Gas Areas in United States	6-16	G-11
Cross Sections	6-16	G-12-G-13-G-16-G-17
The Appalachian Gas Field	6-16	G-19-G-23-G-25
Outline Map of Pennsylvania, West Virginia and Ohio	6-16	G-18
Oil and Gas Fields—North Louisiana, South Arkansas	6-16	G-71
Muenster Townsite Pool, Cooke County, Texas	6-30	50
Hooser Pool, Cooke County, Texas	6-30	50
High Spots in Mirando District	6-30	59
Recent Map of Saginaw Field	6-30	111
Map of Cooke County, Texas	6-30	121
Township 5-6, Pontotoc County, Oklahoma	6-30	139

NATURAL GASOLINE, NATURAL GAS, HELIUM

Williams, Neil—Natural Gasoline in Seminole Pool	1-20	162
Roesch, Daniel—Determine Gasoline Price by Antiknock Tests	2-3	134
Kern, C. E.—Congress Approves Appropriation for Helium Lands	2-10	76
Willson, C. O.—Gasolines Relatively Low in 1926	2-10	190
Jackson, G. M.—Cooling System in Gasoline Industry	2-10	242
Barton, P. D.—Natural Gasoline in California	2-10	126
Bunn, G. P.—Advances in Gasoline Manufacture	2-17	110
Kern, C. E.—Commercial Production of Helium	3-17	31
Peters, Otto—Impure Water Factor in Corrosion	3-31	168
Sillers, D. A.—Problems of Measuring Gas	3-31	168
Smith, L. O.—Factors in Gasoline Plant Operation	4-7	152
Koch, G. T., and G. A. Burrell—Amyl Acetate from Natural Gasoline	4-7	170
Enright, M. V.—Vacuum Problem in Gasoline Manufacture	4-14	146
Clark, E. A.—Trend of Measurement of Natural Gas	4-14	33
Whitwell, George E.—Selling of Gas and Gas Appliances	5-12	71
Conner, R. M.—Laboratory Work of Interest to Gas Industry	5-12	75
McGowen, N. C.—Natural Gas Problems in Southwest Fields	5-12	149
Peterson, F. P.—Laboratory Work in Gasoline Plants	5-19	170
Natural Gasoline Plant Survey	5-26	96
Wyatt, Staley and Lederer—Lubrication in Natural Gasoline Plants	5-26	103
Ziegenhain, W. T.—Natural Gasoline Standardization	5-26	103
Smith, S. S.—Unit Gasoline Plant Construction	5-26	170
Bourque, A. V.—Research and Education Program	5-26	181
Willson, C. O.—Gasoline Industry Has Record Growth	5-26	97
Personnell of Natural Gasoline Industry	5-26	129
Peterson, F. P.—Water Problem in Column Operation	6-2	136
Hopkins, G. R.—Carbon Black Important Industry	6-9	70
Natural Gas Industry Number	6-16	
Crider, F. A.—Natural Gas in Louisiana and Arkansas	6-16	70
Garner, James B.—First Events in Natural Gas Industry	6-16	G-8
Smith, George Otis—Many Areas Benefit from Natural Gas	6-16	G-9
Robinson, J. French—Geology of Appalachian Territory	6-16	G-12
Rogers, W. G.—Service Charge and What It Represents	6-16	G-32
Stickler, J. L.—Three Part Gas Rate Explained	6-16	G-38
Lee, A. W.—Storing Gas in Old Depleted Wells	6-16	G-41
Tonkin, John B.—Intangible Assets of Public Utility	6-16	G-42
Ellis, H. G.—Gas for Repressuring Old Oil Fields	6-16	G-53
Hurlburt, A.—Use of Natural Gas for Industries	6-16	G-57
Kerr, T. H.—Gas Regulator Design and Operation	6-16	G-90
Peterson, C. J.—Occurrence of Gas in Mid-Continent	6-16	G-114
Davis, Ralph E.—Estimation of Natural Gas Reserves	6-16	G-125
Hagan, W. G.—Methods of Detection of Gas Leaks	6-16	G-128
Garner, Dr. James B., R. W. Miller—Chemical Composition of Natural Gas	6-16	137
Preston, S. C.—Gas Compressing Stations Big Factor	6-16	144
Tonkin, J. B.—And Then the 20-inch Line Blew Out	6-16	G-151
Henderson, E.—California Compressor Installation	6-16	G-158
Loebell, Henry O.—What Can Be Done With Natural Gas	6-16	G-161
Diehl, J. C.—Development of Measurement of Gas	6-16	G-165
Young, Dr. A. E.—Orifice Meter in Gas Measurement	6-16	G-173
Carr, Reed L.—Carbon Black a Vital Business	6-16	G-198
Moore, Richard B.—Production of Helium Commercially	6-16	G-229
Garner, Dr. J. B.—Gasoline Recovery from Natural Gas	6-16	G-234
Peterson, F. P.—Apparatus to Determine Air in Gas	6-23	163
Kern, C. E.—Output of Helium Fast Diminishing	6-30	41
Oliver, Earl—Open Covenants Openly Arrived at	6-30	42
Kern, C. E.—Interest in Helium Began When U. S. Entered War	6-30	83

PRODUCTION—GENERAL

McIntyre, James—Increased Production in 50 Fields	1-6	32
Kern, Charles E.—Mexican Production and Exports in 1926	1-13	131
Dameron, James H.—Louisiana Development Interesting	1-27	77
McIntyre, James—All Production Records Broken	2-10	96
McIntyre, James—29,319 Wells Completed in 1926	2-10	104
Standard Oil New Jersey Statement on Production	2-17	33
Gardner, J. H.—Production Prospect for 1927	2-17	72
Better System in Selling Leases	2-17	151
McIntyre, James—Recent Cuts in Crude Affecting Value of Output	3-3	33
McIntyre, James—Drilling Increases in Flush Fields	3-10	37
McNutt, V. H.—Potash May Make Dry Hole Profitable	3-24	42

PRODUCTION GENERAL

	Date	Page
Fanning, L. M.—Increased Wildcatting Cost	3-24	31
McIntyre, James—Production from Wells	4-7	34
Davison, George—Pittsburgh's Place in Petroleum	4-7	76
Kerns, C. E.—Naval Oil Reserve in Alaska Awaits Funds for Drilling	4-7	105
Stockman, L. P.—Effect of California Cut on Market	4-7	29
Swanson, E. B.—Sources and Distribution of Petroleum	4-14	64
McIntyre, James—Big Increase in Volume and Utility of Oil	4-28	33
Reeser, E. B.—A Challenge to the Industry	4-28	31
Airey, Richard—Curtailment Action Necessary	5-5	31
Oliver, Earl—Plan for Co-operation in Production	5-5	127
Miskell, P. M.—Not Laws but Practices Responsible for Overproduction	5-12	30
Fanning, L. M.—Federal Oil Board Interested in Overproduction	5-12	31
Marland, E. W.—State Laws the Solution for Overproduction	5-12	31
Reeser, E. B.—Industry Urged to Immediate Action	5-12	32
Kern, Charles E.—Meeting Called on Overproduction	5-12	29
Marland, E. W.—State Laws the Solution	5-12	31
Fanning, L. M.—Seminole Operators' Curtailment Meeting	5-19	37
Kern, C. E.—Oil Producers Encouraged to Act by Oil Board	5-19	37
Collins, B. H.—Should Demand Discrimination Cease	5-19	38
Lovejoy, J. M.—Suggests Partnership in Wildcats	5-19	39
Fohs, F. J.—Suggested Remedies for Overproduction	5-19	40
Fanning, L. M.—Seminole Operators Agree on Curtailment	5-26	36
Kern, C. E.—Federal Oil Board Offers Services	5-26	38
Dye, G. A.—Curtailment Urged in Flush Pools	5-26	41
Rowley, A. M.—Excess Production 150,000 Bbls. Daily	5-26	41
McIntyre, James—Seven-Tenths of a Cent Per Well Per Day	5-26	180
Dwyer, J. L.—Seminole Plan Affects 90,000 Bbls.	6-2	30
McIntyre, James—250 Wells Upset a Great Industry	6-2	32
Dwyer, J. L.—Kansas Pool in Poor Man's Paradise	6-2	85
Clark, E. W.—Problems in Overproduction	6-16	38

PRODUCTION—CALIFORNIA

Review of Fields—Weekly.		
Jensen, Joseph—Will California Repeat 1923 Flood?	2-17	72
Stockman, L. P.—California Production Trend	3-31	31
Eaton, J. E.—Ventura Avenue Stabilizing Influence	3-31	35
Eaton, J. E.—California Drilling Records Broken	4-7	33
Eaton, J. E.—California Peak Appears Past	6-2	33
Dunlap, W. E.—California's Position in Crude Situation	6-9	32
Stockman, L. P.—California's Remarkable Development	6-30	37

PRODUCTION—GULF COAST AND SOUTHERN TEXAS

Review of Fields—Weekly.	Date	Page
Judson, S. A.—Result of Operations on Gulf Coast	2-24	97
Lockwood, C. D.—Church and Fields Pool	2-24	31
Lockwood, C. D.—Added Importance to Crane County	2-24	31
Lockwood, C. D.—Big Promise in Pecos Shallow Pool	3-3	31
Kern, Charles E.—Possibility of Structures in Gulf of Mexico	3-10	80
Lockwod, C. D.—West Texas Fields not a Menace	3-24	41
Lockwood, C. D.—Winkler County Operations Curtailed	4-7	33
Lockwood, C. D.—Co-operative Wildcatting in Texas	4-28	33
Edwards, Everett C.—Stratigraphic Position of Big Lime	4-28	59
Lockwood, C. D.—Yates Pool is Remarkable Oil Field	6-2	145

PRODUCTION—MID-CONTINENT

Dwyer, J. L.—Seminole Proving Unusual Lease	1-6	33
McIntyre, James—Big Wildcatting Campaign Is On	1-27	34
Dwyer, J. L.—Oklahoma's New Production Record	2-10	112
Teas, L. P., Along Angeline—Caldwell Flexure	2-17	76
Crider, A. F.—Deep Sand Possibilities of Louisiana-Arkansas Fields	2-17	76
Ley, H. A.—Enlarging Areas Worthy of Testing	2-17	102
Whitehead, R. B.—Three Billion Reserve in Panhandle and West Texas	2-17	110
McIntyre, James—Mid-Continent Crude Prices Cut	2-24	28
Dwyer, J. L.—Seminole Hurt Little by Shut Down	3-3	29
Dwyer, J. L.—Deepest Producer in Mid-Continent	3-3	72
Osage Lease Sale March 28	3-3	84
Dwyer, J. L.—Only 37 Per Cent Free Oil in Seminole	3-10	41
McIntyre, James—Burbank Field is not yet Defined	3-24	41
McIntyre, James—$2,101,000 Paid for Six Osage Leases	3-31	183
Boggy Creek Field, Cherokee County, Texas	4-7	31
Dameron, J. H.—Restoring Pressure in Petrolia Field	4-28	35
Edwards, E. C.—Stratigraphic Position of Big Lime	4-28	59

PRODUCTION—ROCKY MOUNTAIN

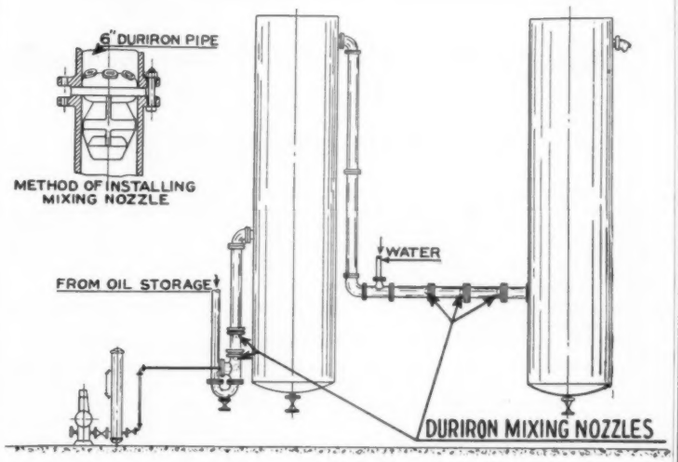
Ball, Max—On Possibilities of Rocky Mountain District	3-3	170
Taylor, Frank—Peculiar Problems in Rockies	4-21	42

PRODUCTION METHODS

Bechstrom, R. C., and Van Tuyl, F. M.—Flooding Sands with Akaline Solutions	1-13	34
Willrich, E. G.—Mechanics in Pumping of Oil Wells	1-13	76
Ambronn, Richard—Geophysical Methods will Prove Auxiliaries in Solving Problems	1-13	112
Turnbull, George—Air Pressure in Oldest Field Shows Good Results	1-13	128
Herold, S. C.—Conditions as Found in Oil and Gas Reservoirs	1-13	160
Bowie, Major William—Use of Gravity Pendulum	1-20	80
Air Pressure in Venango County, Pennsylvania	1-27	111
Dwyer, J. L.—Acreage Pools Gain Industry's Favor	1-27	29
Dwyer, J. L.—Air Lift Increases Yield at Seminole	1-27	38
Herold, S. C.—Principles of Fluid Delivery	2-3	111
Dwyer, J. L.—Gas Lift System Proving Successful	2-3	33
Thoms, C. C.—Use of Heavy Minerals in Rotary Drilling Mud	2-3	96
Shaw, S. F.—Oil-Gas Ratios Proposed in Marland Bill	2-10	42
Bennett, E. O., and K. C. Sclater—Gas Lift in Actual Practice	2-24	33
Mills, R. Van A.—Oil Well Corrosion	2-24	76
Shaw, S. F.—Back Pressure Increases Gas	3-3	32
Gardner, J. H.—Theory of Local Oil Accumulation	3-3	154
Dwyer, J. L.—Improvement in Production Methods	3-17	30
Dwyer, J. L.—Old Timer Would Be Lost in New Field	3-17	33
Dwyer, J. L.—Operation of Air Lift at Seminole	3-24	37
McNutt, V. H.—Potash May Make Dry Hole Profitable	3-24	42

DOWN! Goes Treating Cost

Great savings in time, power and chemicals are effected when Duriron mixing nozzles are used for continuous treating of light oils with sulphuric acid or other treating agents.



The salient features of the Duriron nozzle are complete immunity from corrosion and erosion; an intimate mixture of liquids of different specific gravities; elimination of excessive back pressure on the pumping system and an accurate measurement of treating agents.

Full information on adapting this economical and efficient nozzle to your plant will be sent on request. Write TODAY.

Look at These Nozzle Prices

4"—$24.00; 6"—$27.25; 8"—$37.25

Duriron is produced only by

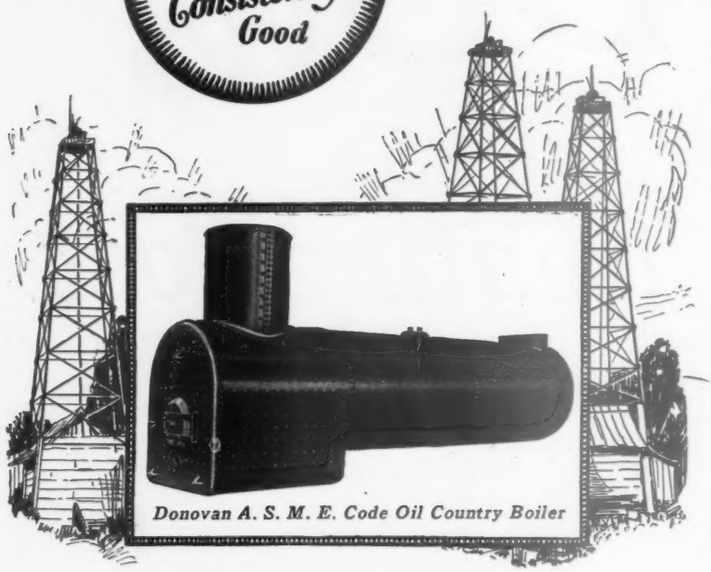
The DURIRON COMPANY DAYTON·OHIO

SALES REPRESENTATIVES

Edward Soph
215-16 Alexander Bldg.,
Tulsa, Oklahoma

Ayres Engineering Co.,
908 Post-Dispatch Bldg.,
Houston, Texas

Donovan Boilers are Consistently Good



Donovan A. S. M. E. Code Oil Country Boiler

Chosen for Their Ability to Deliver the Goods Because

They Are Built Right

In the early days, the domes on oil country boilers were attached in much the same manner as when the domes are placed back on the shells; nothing held the dome in place but the rivets in the flange. This caused cracking in the heel of the flange because the domes could move up and down under pressure.

To eliminate this, the A. S. M. E. Code limited the diameter of the dome to 60% of the diameter of the shell when the dome is placed on the shell. The small dome, resulting from this, made it very easy to pull over the water and the boiler could not do its work.

The DONOVAN boiler has a large dome over the firebox which is thoroughly staybolted to the crown sheet. The dome cannot move, hence no dome flange cracks are encountered. In our design, the dome can be as large as needed. There is no limitation to its size. This permits a large dome, resulting in a maximum supply of dry steam at all times and making it difficult to pull the water over. The steam is dry, because it comes off right over the crown sheet.

This design was developed by practical men and will do the work demanded of an oil country boiler. DONOVAN has never built a boiler with the dome any place but over the firebox where experience shows it should be. DONOVAN was the first to build A. S. M. E. Code boilers of this design.

This is another reason why you should buy DONOVANS when you need boilers.

Manufactured by

DONOVAN BOILER WORKS, INC.

PARKERSBURG, W. VA.

NEW YORK OFFICE—30 Church Street

FRICK-REID SUPPLY COMPANY

Mid-Continent Distributors

GREAT NORTHERN TOOL & SUPPLY CO.
MIDLAND IRON WORKS

Montana Distributors

All Leading Supply Houses Throughout the Eastern Fields Handle

DONOVAN QUALITY PRODUCTS

NONE BETTER

PRODUCTION METHODS

	Date	Page
Nutting, P. G.—Soda Process for Petroleum Recovery	3-24	76
Nutting, P. G.—Soda Process for Petroleum Recovery	3-31	76
Dwyer, J. L.—Many Problems Confront Oil Producer	4-14	32
Brandenthaler, R. R.—Presure Control of Flowing Wells	4-14	
Dwyer, J. L.—Air-Gas Lift Hastens Seminole Peak	4-28	34
Alexander, Ford—Methods Suggested for Shutting off Water	4-28	77
Clapp, F. G.—Present Stage of Oil Geology	4-28	92
Nutting, P. G.—Principles Underlying Soda Process	5-5	32
Peterson, Frank—Improving Use of Air-Gas Lift	5-5	80
Herold, S. C.—Capillary and Volumetric Controls	5-5	180
Brewster, F. M.—Use of Air and Gas in Oil Recovery	5-12	120
Reistle, C. E., Jr.—Removing Paraffin from Wells	5-12	123
Templeton, J. C.—Geophysical Prospecting for Oil	5-12	42
Raisch, E. J.—Geophysics Anyone Can Understand	6-2	74
Better Shooting Aids Oil Recovery	6-2	130
Dwyer, J. L.—Efficacious Use of Core Drilling	6-16	39
Shaw, S. F.—Principles of Air and Gas Lift	6-16	40
Leonard, A. W.—Methods Employed in Mid-Continent	6-16	G-35
Parsons, C. P.—Use of Rotaries to Drill Gas Wells	6-16	G-207
Williamson, E. W. and Eugene Siggins—Drilling Deepest Cable Tool Well	6-16	G-217
Reed, C. C.—Development of Absorption Method	6-16	G-232
Brandenthaler, R. R.—Problems in Estimating Gas Reserves	6-30	40

PROPERTIES, SPECIFICATIONS, TESTING

Specification Tests for British Special Naphthas	4-7	156
Stewart, L. A.—Specifications for Heating Oil Suggested	4-21	144
Downey, V. T.—Define Flash and Method of Making New Test	5-5	33
Scott, A. W.—Tests Show Considerable Variation	5-5	163
Committee D-2 Presents Report	6-30	38

REFINERY OPERATIONS, PRODUCTS AND MARKETING

Kates, Phillip—Thinks Sales Competition Overdone	1-13	29
Plant Superintendents in Conference	1-20	41
Willson, C. O.—Factors Influencing Gasoline Sales	1-27	30
Railroad Use One-Fifth of Fuel Oil	1-27	88
Osborn, Campbell, and C. J. Deegan—Economic Position of Fuel Oil	2-17	37
Refinery Survey as of March 1, 1927	3-10	100
Miskell, P. M.—Co-operation, Great Need of Refiners	3-10	122
von Bibra, Carl J.—California Refined Market Outlook	3-10	127
Beroth, Carl—Arbitration in Marketing Disputes	4-14	34
White, C. B.—Foresees Upheaval in Marketing Oil	4-21	37
Fanning, N. O.—Exporters Facing Stiff Competition	6-9	31
Fanning, L. M.—Crude Small Factor in Gasoline Cost	6-16	37
Fanning, N. O.—Gallon Costs from Marketing Standpoint	6-23	89
Fanning, N. O.—Atlantic Coast Refineries Using South American Crude	6-30	39
Willson, C. O.—Wax Stocks Continue to Increase	6-30	129

REFINERY AND CHEMICAL METHODS

Questions and Answers—Weekly.		
Finney, W. R., and Young, H. W.—Corrosion in Gasoline Manufacture	1-6	170
Frichot, B. C.—How to Reduce Evaporation Losses	1-20	144
Koch, F. C.—Construction of Bubble Cap Towers	1-20	90
Thoen, J.—Greater Fuel Economy in Refineries	1-27	72
Harris, C. P.—Alcohols from Petroleum	1-27	138
Willson, C. O.—Secure Cracking in Reducing Still	1-27	33
Morris, F. J. and L. R. Adkins—Determining Specific Gravity of Wax	2-10	246
Smith, C. L.—New Developments in Fractionation	2-17	38
Burrell, G. A.—Fractionation in Petroleum Refining	2-24	76
Pierce, D. E.—Ammonia in Arresting Corrosion	2-24	128
Wood, A. E.—Numerous Phases to Sulphur Problem	2-24	146
Poole, J. W.—Refining Mexican Crude Petroleum	3-3	154
Widdell, H. E.—Pipe Still Unit Provides Passes	3-3	140
Burrell, G. A.—Gasoline from Gases at Refineries	3-10	94
Cross, Roy—Producing Gasolines from Shale Oil	3-10	96
Francis, C. K.—Developments in Petroleum Refining	3-10	99
Mantius, Otto—Recovering Sludge Acid at Refineries	3-10	114
Ziegenhain, W. T.—Making Special Naphthas Costly	3-10	130
Koch, F. C.—Special Naphthas with Pipe Still	3-10	135
Williams, Neil, Bureau of Mines Studies Treating	3-10	136
Eliminating Odor at Refineries	3-10	196
Kraemer, A. J.—Bureau of Mines and Oil Refining	3-10	214
Williams, Neil—Unique Features at McMillan Plant	3-24	140
Kroch, Emeric—Moscicki Oil Distillation Process	3-31	186
Edwards, C. M.—Care in Natural Gasoline Plants	3-31	120
Bennett, H. T., R. G. Story and I. A. Clark—Copper Corrosion Test of Gasoline	4-14	138
Egloff, Gustav and J. C. Morrell—Refining of Spindletop Crude Oil	4-14	156
Bennett, H. T., and R. G. Story—Sulphur Compounds in Oil Distillate	4-21	162
McMillan, L. B.—Heat Transfer Through Insulation	4-28	38
Greene, H. H.—Conservation of Water and Heat Exchange at Refineries	5-5	32
Egloff, G., and Morrell, J. C.—Laboratory Equipment in Refineries	5-5	172
Willson, C. O.—Use of Gray Towers in Rerun Operation	5-12	172
Padgett, F. W., Hefley, D. G., and A. Henricksen—Microscopic study of Petroleum	5-19	96
Egloff, G., and J. C. Morrell—Large Yields from Seminole Crude	5-19	152
Slagter, A. J.—Burn Sludge Acid Without Blending	5-26	188
Good, F. B.—Water Treatments, Costs, Reactions	5-26	100
Burton, W. M.—Early Days in Refinery Research	6-2	154
Ragatz, E. G.—Fundamentals in Vapor Enrichment	6-9	122
Borgstrom, P., and E. Emmet Reid—Sulphur Compounds in Mineral Oils	6-9	139
Scott, W. H.—Indian Refining Perfects Treating System	6-16	352
Willson, C. O.—Laboratory in Refinery Operations	6-16	370
Kaye, Emby—Compression Process Gaining Favor	6-16	G-169

RESEARCH AND PUBLIC RELATIONS

Brooks, B. T.—Research in Petroleum Industry	3-10	132
Personnel and Locale of A. P. I. Research	4-14	139
Results of Tests in Soil Corrosion Investigation	5-5	75
Fanning, L. M.—Research in Marketing Required for Efficiency	5-19	176
K. H. Logan—Soil Corrosion Investigation Results	6-16	G-221

NO·OX·ID
IRON + OX = RUST
TRADE MARK
The Original Rust Preventive

Again!

The Only
Protective Coating
That Has Held Up

Report from a Dearborn Service Man in Texas:

"The ——— Pipe Line Company 'phoned me this morning that they were sending in an order for three drums of NO-OX-ID "A" Special and 1100 yards of NO-OX-ID-IZED Wrapper,—this material to be used in treating a particularly bad spot on one of their lines near Port Arthur, Texas, where all paints and asphaltic coatings have failed—NO-OX-ID and Wrapper being the only protective coating that has held up, the small stretch of line which we treated with NO-OX-ID and Wrapper last year as a demonstration being still in fine condition as compared to paint and asphaltic coatings. The soil over this line is highly impregnated with salt water, refinery drainage and sludge acid refuse—so in all it is quite a severe test."

Let us run a demonstration for you if you are not already fully convinced that NO-OX-ID and NO-OX-ID-IZed Wrapper are the most effective of all protective coatings.

Dearborn Chemical Company
310 S. Michigan Ave., Chicago
299 Broadway, New York
Canadian Headquarters:
[illegible]4-2464 Dundas St. West, Toronto

and
NO·OX·IDized
Wrapper

RESERVES AND CONSERVATION

Fanning, L. M.—Committees on Conservation Active	1-6	34
Kern, C. E.—Inventory of Petroleum Reserves and Future Sources	1-6	132
Fanning, L. M.—President Clark Outlines A. P. I. Policy	1-13	30
Fanning, L. M.—Studying New Production Methods	1-13	33
Kern, C. E.—Marland Offers Bill to Oil Board	1-20	38
Fanning, L. M.—Gas Conservation up to Industry	1-20	38
Kates, Phillip—Government's Chance for Co-operation	1-20	42
Kates, Phillip—Marland Bill Declared Unconstitutional	1-27	31
Kates, Phillip—Mexican Principle in Marland Bill	2-3	31
Kerns, C. E.—New Antitrust Policy Outlined	2-3	29
Oklahoma Oil Men Do Not Favor Marland Bill	2-3	124
Marland Explains His Bill	2-3	31
Kates, Phillip—Gas Conservation Bill Analyzed	2-10	37
Kern, C. E.—Chairman Work Ready to Hear Co-operation Plan	2-10	39
Fanning, L. M.—Beaty Against Acting too Hastily	2-10	38
Requa Urged Voluntary Co-operation on Conservation	2-10	38
Marland Bill Condemned by Mid-Continent Oil & Gas Ass'n.	2-10	42
Kates, Phillip—Industry a Business, not a Laboratory	2-17	34
Dwyer, J. L.—Oil Men Study Conservation Program	2-17	34
Marland Bill Legislative Hearings	2-17	35
A. I. M. E. Enginers Warn Against Hasty Conservation Legislation	2-24	30
Lovejoy Advocates Experimentation not Legislation	2-24	30
Marland Bill Reported Unfavorably	3-3	33
Kates, Phillip—Report Against Marland Bill	3-3	30
Reeser, E. B.—A Challenge to the Industry	4-28	31
Fanning, L. M.—Gas Conservation Committee Meets	6-2	29

SHALE OIL AND COAL CARBONIZATION

Kern, Charles E.—Navy Interested in Shale Oil Reserve	1-13	133
Foreign Process for Gasoline Substitutes	2-10	283
Cross, Roy—Producing Gasolines from Shale Oil	3-10	96

STATISTICS, DEPARTMENTS AND INDEX

(Statistical Articles also Appear Under Other Headings)

Bureau of Mines Report—Monthly
Oil & Gas Journal Production Report—Weekly.
Oil & Gas Journal Field Operation Reports.
Oil & Gas Journal Well Completions—Monthly.
Oil & Gas Journal Production by Gravity Report—Monthly
Oil & Gas Journal Mexican Shipment Report—Monthly.
Oil & Gas Journal Mid-Continent Refinery Run Report—Monthly.
Oil & Gas Journal Major Production Report—Monthly.
Oil & Gas Journal Oklahoma, Kansas and Eastern Pipe Line Report—Monthly.
Oil & Gas Journal's Annual Number.
- Graphic Analysis of Industry.
- Production by Fields.
- Field and Statistical Reviews.
- Crude Price Changes in all Fields, Average Prices.
- Well Completions by Fields.
- Tank Wagon Prices.
- Receipts at Atlantic and Gulf Ports.
- Refinery Prices; Average Prices.
- Refinery Statistics.
- Pipe Lines Built and Building.

Oil and Gas Journal Index, July-December, inclusive	1-20	108
Texas Production Last Quarter 1926	2-24	98
Oklahoma Production Last Quarter 1926	3-3	106
Oklahoma Production First Quarter 1927	5-26	75
Texas Production First Quarter 1927	5-26	76

TRANSPORTATION AND STORAGE

Oil Freight Rate Hearings	1-13	32
Dameron, J. H.—Economic Operation of Pump Stations	1-13	92
Oil Freight Rate Hearings	1-20	40
Government Report on Oil Pipe Lines	2-10	160
Bowie, C. P.—California Pipe Line Viscous Oils	2-17	36
Jones, A. S.—Types of Pumping Machinery and Stations on Pipe line	2-17	102
Fanning, N. O.—Big Consumption Boosts Tanker Rates	3-3	90
Proposed Gas Line From Panhandle to Kansas City	3-10	39
To Build Longest Gas Line in World	3-10	39
Rowley, A. M.—Pipe Line Projects Break all Records	4-14	29
Young, S. P.—Pipe Line Power and Fuel Problems	4-14	112
McGreal, P. L.—Pipe Line Construction in West Texas	4-14	75
Rawlins, E. L.—Gas Flow Through High Pressure Lines	4-21	40
Stumpf, John—Measuring and Calculating Outages	4-21	86
Kerr, A. J.—Regulation of Gas Pressure	4-21	125
Kaye, Emby—Storage Is Natural Gasoline Remedy	4-28	70
Dameron, J. H.—Magnolia Line has Many New Features	6-16	42
McCloy, W. L.—Evolution in Pipe Line Construction	6-16	G-45
Speller, Frank N.—Improving Line Pipe Big Problem	6-16	G-97
Gallagher, R. W.—Factors Determining Building of Line	6-16	G-98
Kerr, T. H.—Features of Gas Distribution	6-16	104
Leland, Edward D.—Determining Pipe Line Diameters	6-16	134

UTILIZATION—AUTOMOTIVE, ETC.

Fanning, L. M.—U. S. Auto Registration, etc., 1926	1-6	31
Fanning, L. M.—All Year Use of Motor Truck	3-3	33
Fanning, L. M.—Diesel Engines in Motor Trucks and Ships	4-21	39

OIL BURNING

Williams, Neil—Fuel Oil Contracts in Mid-Continent	1-6	30
Lientz, B. P.—Fuel Economics in Furnace Operation	1-20	92
Stewart, L. A.—Specifications for Heating Oil	4-21	144
Rosenkrans, F. M.—Building House Heating Load	4-21	74
Fanning, L. M.—Diesel Engine Markets for Oil	6-9	31
Fanning, L. M.—Low Flash Oils in Eastern States	6-9	35
Fanning, L. M.—A. S. T. M. Studying Furnace Oils	6-9	35
Fanning, L. M.—Oil Supply for Burner Use Assured	6-23	84
Ziegenhain, W. T.—Oklahoma Furnace Oil Specifications	6-23	74

MISCELLANEOUS

Winkler, John K.—Personal Sketch of John D. Rockefeller	3-10	82
Lundell, F. W.—Petroleum Reference Library	4-21	64

Index to The Oil and Gas Journal

Principal Articles Appearing in Issues During Last Six Months of 1927 Classified for Ready Reference by Readers

ASSOCIATIONS—BUREAU—COMMITTEE MEETINGS

	Date	Page
A. I. M. E. Meeting October 19-20—Program	7-7	122
Technical Committee Recommends Creation of Forum	7-14	31
Kern, Charles E.—Silver Anniversary Meeting of N. P. A.	9-8	30
Fanning, N. O.—N. P. A. Anniversary Notable Meeting	9-22	57
Waldo, J. B.—Safety Directors Hold Annual Meet	10-6	79
Willson, C. O.—W. P. R. A. Technical Sessions a Success	10-13	29
Smiley, Thomas F.—Engineers Consider Gas Utilization at Ponca City	10-20	37
American Gas Association Considers Industry's Problems at Chicago	10-20	72
Waldo, J. B.—Independent Oil Men Discuss Problems at Chicago	10-27	53
Stockman, L. P.—Discuss Changes in Natural Gasoline	11-24	36
Institute Meeting at Critical Time	12-1	46
Rowley, Andrew M.—Institute Adopts Active Platform	12-8	29
Clark, E. W.—Institute is Pledged to Co-Operation	12-8	30

AIR AND GAS LIFT

	Date	Page
Dwyer, J. L.—Air Gas Lift Permits Big Well Average	8-18	33
Williams, Neil—Operators in Pine Island are Installing Gas Lift	10-6	74
Pierce, H. R. and James O. Lewis—Principles of Air Gas Lift Practice	10-20	42
Shaw, S. F.—Air Gas Lift Practice in Seminole	10-20	76
Dwyer, J. L.—Mechanical Apparatus for Air Gas Lift	10-20	83
Miller, H. C.—Gas Lift Pumping in California Field	10-20	88
Brundred, L. L.—Air Lift Used in Gulf Coast Area	10-20	92
McIntyre, James—Compressor's Success in Old Fields	10-20	95
Bennett, E. O.—Back Pressure and Ultimate Recovery	10-20	100
Swartz, Clifton R.—Seminole Air Gas Lift Installations	10-20	108
Brandenthaler, R. R.—Effect of Gas Lift on Oil Uncertain	10-20	112
Foran, E. V.—Mechanical Installations of Gas Lift	10-20	115
Uren, Lester C.—Gas Factor and Production Efficiency	10-20	116
Lake, F. W.—Air Gas Lift and Ultimate Production	10-20	122
Lockwood, C. D.—Ultimate Value of Gas Lift Unsettled	10-27	32

CARBON BLACK

	Date	Page
Origin and Development of the Carbon Black Industry	10-13	68
Proposed Carbon Black Plant in Louisiana Causes Argument	12-22	56

CRACKING AND CRACKED GASOLINE

	Date	Page
Curtailment of Cracking Programs	7-28	158
Florez, Luis de—Vapor Phase Cracking Important as Adjunct to Existing Methods	12-29	277

CURTAILMENT PLANS AND DISCUSSIONS

	Date	Page
Fanning, L. M.—Co-operative Action in Menacing Pools Suggested	7-14	29
McIntyre, James—Corporation Commission Asked to Approve Curtailment Plans	7-14	162
Rowley, Andrew M.—State Approves Seminole Curtailment	8-11	33

ECONOMIC, FINANCE, ACCOUNTIN, VALUATION, ADMINISTRATION

	Date	Page
Fanning, L. M.—Need Survey of Distribution Costs	7-7	33
Fanning, N. O.—Increased Facilities and Stocks Gain in Assets	7-7	91
Value of Oil Securities Estimated to Have Dropped Billion Dollars Since 1926	7-14	124
Prizer, Edward—Industry Deserves Fair Treatment	7-21	37
Welliver, Judson, C.—Gasoline is Still Cheapest Commodity	7-21	40
Welch, Robert C.—Industry Working on Co-Operation	7-28	40
Crude Oil Price Changes First Half 1927	7-28	160
McIntyre, James—Quarter Billion Spent on Drilling	8-4	25
Fanning, L. M.—Favoring Unit Operation of Pools	8-4	127
Fanning, N. O.—More Capital Needed by Industry	8-25	42
Fanning, N. O.—Increase in Oil Inventories	9-8	102
Kates, Phillip—Overcompetition Oil Industry's Bane	9-29	25
Sutton, Brice T.—Many Problems Involved in Leases on Life Estate	9-29	135
Subkow, Philip—Establish Patent Policy for Employes	10-6	150
Employes' Invention Agreement of Associated Oil Co.	10-6	150
Proctor, F. C.—The Oil Problem; Causes and Remedies	10-20	40
Buchanan, D. E.—New Markets Needed by Oil Industry	10-20	31
Oil Tariff Not Conservation, Real Need Says Pat Malloy	10-27	92
Kates, Philip—Combines in the Petroleum Industry	11-3	54
Chisholm, William F.—Leasing System Said to Cause Waste	11-3	72
Hopkins, G. R.—Fuel Costs at Refineries Decreasing	11-10	154
Value of Petroleum Exports in 1926 totaled $554,533,629	11-17	115
Kern, Charles E.—Acquisition of Bergius Rights Includes Future Discoveries	11-17	116
Swanson, E. B.—Atlantic Coast Operations Analyzed	11-17	136
Rowley, Andrew M.—Gasoline is Still Cheapest Commodity	12-1	125
Industry Shows What It Can Do	12-1	132
Ziegenhain, W. T.—Cost of Refining Barrel of Crude	12-1	151
Economics of the Use of Petroleum	12-1	162
Fanning, N. O.—High Cost of Overproduction Shown	12-1	189
Fanning, N. O.—How Competition Dictates Prices	12-1	192
Anglin, B. H.—Free Market Equipment Not Justified	12-8	94

EQUIPMENT AND SUPPLIES

	Date	Page
Boehne, E. E.—Creosoted Pine Poles Are Used More Extensively	7-14	97
Luty, B. E. V.—Roxana Orders 296 Miles of Pipe Line	8-25	109
Recording Magnetometer Marks Another Step in Oil Finding	8-25	172

EQUIPMENT AND SUPPLIES—(Continued)

	Page	Date
Bissell, A. G.—Electric Arc Welded Pipe Tested in 3 Positions	9-8	66
Burnett, Robert N.—Problem of Selecting Sucker Rods	9-22	137
Trax, David L.—Care of Oil Field Belting Important	9-22	144
Smiley, Thomas F.—Ingenious Tools for Fishing Jobs	11-10	86
Luty, B. E. V.—Roxana in Market for 70,000 Tons of Line Pipe	11-10	114
Smiley, Thomas F.—Thing of Might is Oil Field Tractor	11-17	41
Anderson, Hallam H.—Evaluation of Wire Rope Casing Lines	12-8	57
Wilson, R. A.—Results of Usage of A. P. I. Taper Joints	12-8	72
Ketchum, R. M.—Purchasing A. P. I. Standardized Material	12-8	83
Watson, C. D.—Some Advantages of Standard Rigs	12-8	88
Anglin, B. H.—Free Market Equipment Not Justified	12-8	94
Hamaker, R. G.—Maker and User of Boiler Benefit	12-8	110
Reid, John—Use and Care of Gas Engines Discussed	12-22	76

FIRE HAZARD, PREVENTION AND SAFETY

	Date	Page
Wilcox, Col. E. H.—Lightning Protection for Oil Industry	9-15	30
Blakeslee, H. N.—Fire and Accident Prevention	9-15	131
Proper First-Aid Equipment Important in Safety Programs	10-6	133
Prussing, George F.—Fire Prevention in Gasoline Plants	11-24	126
Smiley, Thomas F.—Trying Hard to Reduce Fire Losses	12-1	166
Cutting, C. J.—Successful Method of Fire Prevention	12-8	86
Blakeslee, H. N.—Preventing Accidents in Industry	12-8	110

FOREIGN—ALASKA

	Date	Page
Commercial Possibilities of Production in Alaska	10-6	73

FOREIGN—CANADA

	Date	Page
Douglass, W. A.—Canadian Suggests Centering Efforts on Proven Fields	7-14	112
Lauriston, Victor—Possibilities of Canadian Sweetgrass Recall Early Reports	7-14	167
Canadian Great Plains Offer Large Possibilities	8-4	146
Refined Products Made in Canada Show Gain in Value	9-1	124
Lauriston, Victor—Impressions of Alberta Field, Petroleum Engineer	9-8	163
Allan, Dr. J. A.—Review of Operations in Alberta	9-15	93
Mitchell, J. S.—Problem of Bringing in a Well in Turner Valley Field	9-15	111
Lauriston, Victor—Province of Alberta Leading in Gas Production	9-29	64
Petroleum Production in Canada Increased 40.5% in 1927	9-29	66

FOREIGN—EUROPE

	Date	Page
Kern, Charles E.—Spanish Government Announces Monopoly of Petroleum Business	7-14	30
Estimates of Russia's Reserves Revised Upward	7-21	84
Controversy Regarding Russian Oil	7-28	40
Fanning, N. O.—Russian Oil Market Agreement	8-11	31
Changes in Japanese Market Increasing Demand	9-1	150
Survey of Petroleum Situation Abroad	10-20	39
Iraq 50,000-Bbl. Gusher Opens Field	11-10	34
Iraq Oil is 34 Degrees Baume	11-10	34
Survey of Petroleum Situation Abroad	11-17	37
Kern, Charles E.—Poland Refinery Output Decreases	11-17	156
New Petroleum Developments Abroad	12-29	47
Fanning, N. O.—Reason for Buying Oil from Soviet	12-29	48
Increased European Oil Consumption	12-29	103
Study Alternative Motor Fuels Abroad	12-29	104
Russians Likely to Exceed Record	12-29	134
Rumanian Industry in Throes of Crisis	12-29	136
Fanning, N. O.—American Operations in Foreign Fields	12-29	143
France Counting on Oil from Iraq	12-29	146
Close Up of Persian Oil Industry	12-29	155
Kern, Charles E.—Foreign Oil for Foreign Markets	12-29	160

FOREIGN—MEXICO

	Date	Page
Fanning, N. O.—Decline in Mexico Hits Treasury	8-11	34
Kern, Charles E.—Mexican Oil Controversy as Ambassador Will Find It	10-6	109
Zevada, Manuel J.—Mexican Representative Defends Govt's Policy	10-6	162
Fanning, N. O.—Oil Companies Being Hampered by Regulations	10-13	110
Greater Difficulty in Mexican Field	12-29	30

FOREIGN—SOUTH AMERICA

	Date	Page
Pew, J. Edgar—Million Barrels Daily from Venezuela	7-7	30
Venezuelan Output Larger During May	7-7	116
Kern, Charles E.—Colombia Factor in Future World Oil Production	7-7	152
Kraemer, A. J.—Properties of Typical Crudes in Venezuela	8-4	99
Venezuelan Shipments for Half Year	8-25	174
Barth, Ernesto—Petroleum Resources of Bolivia	9-22	404
Fanning, N. O.—Imports from S. A. Make New Record	10-13	94
Survey of Petroleum Situation Abroad	10-17	37
Oil Development in Colombia is an Expensive Proposition	10-17	160
Wasson, H. J.—Three Big Factors Contribute to Expansion of Venezuela	11-24	150
Hopkins, Edwin B. and H. J. Wasson—Venezuela's Remarkable Development	12-29	49
Kern, Charles E.—Venezuela to Show Increasing Activity	12-29	129
Venezuela Second in Monthly Output	12-29	130
Kern, Charles E.—Oil Taxation in Venezuela Conditions of Concession	12-29	275

(Continued on Page 111)

INDEX TO THE OIL AND GAS JOURNAL

(Continued from Page 72)

GEOLOGY

	Date	Page
Reid, John L.—Geological Distillation of Petroleum	9-8	92
Geothermal Prospecting for Oil in Germany	9-8	106
Rowley, Andrew M.—Science Employed in Search for Oil	12-1	172

LEGISLATION, LITIGATION, TAXATION

	Date	Page
Fanning, L. M.—Growing Taxation on Gasoline Out of Line	7-7	72
Kern, Charles E.—Oil Laws Before Bar Association	7-14	29
Corporation Commission Asked to Act	7-21	54
Fanning, L. M.—Sustain Validity of Trumble Patents	7-21	40
Colorado's New Oil and Gas Law Attracts Attention	8-4	148
Universal Files Additional Suits Involving Patents	8-11	130
Daily Gasoline Tax in August Near Million Dollars	8-11	130
Court Holds Stabilizer Patents Invalid	8-11	131
Fanning, N. O.—Congress to Attempt Regulating Oil	8-25	41
Kauffman, Harold L.—Changes in Patent Office Procedure	8-25	146
Work, Hubert—To Ask Congress for Oil Legislation	9-1	30
Veasey, James A.—Constitutional Obstacles to Oil Law	9-1	32
Kern, Charles E.—Legal Phase of Oil Industry Discussed	9-1	32
Kern, Charles E.—Name Committee on Oil Legislation	9-8	32
Court Dissolves Injunction in Little River Suit	9-15	32
I. C. C. Orders Western Trunk Line Case Opened	9-22	346
Sutton, Brice T.—Many Problems Involved in Leases on Life Estates	9-29	135
Veasey, James A.—Courts May Sustain Oil Regulation	10-6	32
Packard, Frank E.—Trend of Gasoline Tax Legislation	10-6	33
Kern, Charles E.—Mexican Oil Controversy as Ambassador Will Find It	10-6	109
Kern, Charles E.—Sherman Law Amendment Suggested	10-13	30
Martin, Edward—Review of Legislation Affecting Gasoline Taxation	10-20	194
Dameron, James H.—Gas Laws are Declared Inadequate	11-3	29
Kern, Charles E.—Donovan Interprets Anti-Trust Law	11-3	31
Ingram, Tolbert R.—Work's Decision on Western Oil Shale Titles Far Reaching	11-17	158
Gibbs, L. Vernon—Oil Industry Must Have Moratorium	12-1	143
Lease Terms Force Overproduction	12-1	160
Willson, C. O.—State Gasoline Tax Increase Rapid	12-1	207
Government Fails in Patent Club Case	12-8	31
Packard, F. E.—State and Municipal Oil Taxation	12-8	113
No Evidence of Gasoline Manipulation	12-15	32
Trend to Legislative Control of Oil	12-29	108
Kern, Charles E.—Oil Taxation in Venezuela Conditions of Concessions	12-29	275

LUBRICANTS AND LUBRICATION

	Date	Page
Turner, A. J.—Fundamentals of Correct Lubrication	9-29	172
Willson, C. O.—Small Increase in Lub. Oil Demand	11-3	152
Mougey, H. C.—Oil Lubrication for Automobiles	11-10	96-A

MAPS AND GRAPHS

	Date	Page
California Production	7-7	29
Seminole Maps	7-7	31
Church-Fields and Gulf McElroy, Crane County, Texas	7-14	73
Part of Pine Island Area of Caddo Parish, Louisiana	7-14	131
Part of McIlroy Pool	7-14	143
Cross Section of Gulf McElroy and Church-Fields Pools	7-14	145
Routes of Gas Trunk Lines out of Texas Panhandle	7-21	36
Graphic Analysis of the Petroleum Industry	7-28	151-152 155-156
Earlsboro Pool, Seminole	8-4	26
Map of 36 Wells to be Shut Down in Seminole	8-4	27
Bowlegs and Little River Pools of Greater Seminole	8-4	28
Seminole City Pool of Greater Seminole	8-4	29
Hendricks Pool, Winkler County, Texas	8-11	29
Graphic Analysis of Petroleum	8-11	81-82
Distribution of Production and Consumption in Oil Industry	8-25	30
Texas-Panhandle Production	9-1	51
Sierra Grande Arch	9-8	34-123
Map of "South Country" Oklahoma	9-15	32
Extension of Yates Pool in Pecos County	9-15	33
Core Drilled Structure in Payne County, Oklahoma	9-29	56
Earlsboro Pool of the Seminole Field	9-29	85
Bowlegs and Little River Pools of Seminole	9-29	93
Seminole City Pool, first Wilcox Sand Operation	9-29	105
Portion of Long Beach Field	11-3	56
Lease Map of Seacliff Field in Ventura County, California	11-10	31
Map of Yates Pool, Pecos County, Texas	11-24	33
Map of Texas Panhandle, Showing Outline of Gas Land	12-1	49
Church-Fields and Gulf McElroy Pools	12-8	33
Long Beach Field	12-8	34
Oil Pipe Lines and Building in West Texas	12-15	31

MISCELLANEOUS

	Date	Page
Oil Finding Devices Illusive Declares Geological Survey	7-21	80
Reorganization of Jersey Company	8-4	31
Processing of Oil From Coal Growing	8-4	118
Favoring Unit Operation of Pools	8-4	127
Fanning, N. O.—Changes in Standard of New Jersey	8-11	39
Faragher, Warren F. and Raymond L. Abel—Offer Degree Course in Refining	8-11	128
Fanning, N. O.—American Oil Supremacy Threatened	9-8	33
Wilcox, Col. E. H.—Lightning Protection for Oil Industry	9-15	30
Williams, Neil—Starks Dome is Making Oil History	9-29	184
McIntyre—Producing Needs of the Near Future	10-6	29
Reeser, E. B.—Has the Turning Point Been Reached?	10-20	38
Brewster, Frank M.—Paraffin Troubles in Eastern Fields	10-20	119
Buchanan, D. E.—New Markets Needed by Oil Industry	10-17	31
Value of Petroleum Exports in 1926 Totaled $554,533,629	10-17	115

(Continued on Page 112)

Make Our Branch Shops and Yards at Borger, Iraan, Crane and Rankin Your West Texas Headquarters for:

CASING AND LINE PIPE
PIPE THREADING
COUPLINGS AND FITTINGS
NIPPLE AND OTHER EMERGENCY WORK, (24 hour service).

The better service of our branches to West Texas operators is proving unusually profitable to our customers, and is rapidly making them the most popular pipe shops and yards in West Texas.

Our branches are completely stocked with all sizes of casing and line pipe for immediate shipment, and our shops are modernly equipped to furnish speedy and efficient service on pipe threading for all sizes of pipe, as well as nipple and emergency work. Couplings and fittings of all kinds carried in stock.

TULSA PIPE & SUPPLY CO.
OF TEXAS

T. P. LOONEY
General Manager
Headquarters: Amarillo, Texas

LEW D. HILTON
Dist. Manager
Midland, Texas

Shops and Yards Located at:
TULSA, OKLA., AND BORGER, IRAAN, CRANE AND RANKIN, TEXAS.

Thousands of Wells Have Accurate Automatic Vacuum Regulation

ACCURATE, automatic control of well vacuum is being obtained daily on thousands of wells with Davis Improved Casinghead Gas Regulators. The list of users includes practically every active oil company.

Simple advanced design—that's the reason for the accuracy of these regulators. The valve body is separated from the diaphragm chamber allowing an equalized control pressure to be taken from the line a short distance from the valve.

Protection against weather in the most exposed locations, ease of maintenance and repair, and simple installation are other features of the design which have made its choice almost universal. Ask your neighbors about Davis performance, or write for catalog giving full details.

G. M. DAVIS REGULATOR COMPANY
409 Milwaukee Avenue,
Chicago, Illinois

WESTCOTT & GREIS, Inc.
Sales Engineers
TULSA LOS ANGELES DALLAS

Valve Makers for Over Fifty Years

DAVIS VALVE SPECIALTIES

O&GJ 1-19 Gray

MISCELLANEOUS—(Continued)

	Date	Page
Smiley, Thomas F.—Technicians Transform Oil Methods	11-24	37
Smiley, Thomas F.—Oil Field Problem Solved by Tents	12-1	50
Industry Shows What It Can Do	12-1	132
McIntyre, James—Over a Billion Spent in Dry Holes	12-1	134
Willson, C. O.—How Gasoline and Kerosene are Made	12-1	145
Rowley, Andrew M.—Waste Almost Unknown in Oil Fields	12-1	155
Independent Buys Philmack Co.	12-15	30
Campbell, P. P—Superiority of Governmental Control Delusion	12-15	107
Smiley, Thomas F.—Promoting Health in New Oil Fields	12-22	24
Taylor, Hugh S.—How Science Has Helped Industry	12-22	110
Fanning, N. O.—A. L. Beaty Leaves The Texas Company	12-29	46
Smiley, Thomas F.—Industry Holds Commanding Place	12-29	46
Exports Show 7 per cent Gain	12-29	158
Bancroft, D. H.—Story of First Gas Well Recalled by Hand Wrought Tools	12-29	263

MOTOR FUEL AND ENGINE DESIGN, ANTIKNOCK FUELS

	Date	Page
Opposing Development in Engine Design	7-28	233
Botsford, Harry—Internal Combustion Engine Big Factor	8-4	87
Clayden, A. Ludlow—Chief Characteristics of Motor Fuels	9-1	122
Discuss Sulphur at Buffalo Meeting	9-1	122
Ziegenhain, W. T.—Public Will Determine Trend in Mfg. of Motor Oils	10-13	132
Willson, C. O.—Antiknock Increases in Importance	10-17	39
Jones, E. T.—Need Antiknock and Volatility in Gasoline for Aircraft Engine	12-1	275

NATURAL GAS, GASOLINE, HELIUM

	Date	Page
Johnson, T. W.—Bibliography of Publications Relating to Gas Industry	7-7	65
Funk, I. B.—Progress in Gasoline Manufacture	7-7	122
Rawlins, E. L.—Determine Specific Gravity of Gas	7-14	150
Willson, C. O.—To Market Natural Gas Direct	7-21	87
Welliver, Judson C.—Gasoline is Still Cheapest Commodity	7-21	40
Peterson, Frank P.—Use of Records in Plant Operation	7-21	142
Phillips, Perfects New Gasoline	7-28	30
Stuntz, Ross M.—Utilization of Residue Gas of Gasoline Plants Increases	7-28	73
Diehl, John C.—Development of Measurement of Gas	7-28	80
Raigorodsky, Paul—Rectification of Unstable Gasoline	7-28	228
Greenwald, H. P.—Extract Methane from Natural Gas	8-4	138
Livingston, Robert E.—Supplying N. Y. with Gas Big Job	8-18	37
Redfield, Arthur Huber—Gas found in Hungary after 7-year Search	8-18	70
Diehl, John C.—Development of Measurement of Gas	8-25	80
Jones, E. J.—Computing Gas Volume by Slide Scale	8-25	166
Lane, E .C., Condit, D. J., Luce, C. S.—Gasoline is now More Volatile	9-8	132
Adams, Henry Clay—Augmenting the Supply of Natural Gas	9-8	145
Willson, C. O.—Seminole Gasoline Output Large	9-8	151
Ingram, Tolbert R.—Gas Franchise Acted Upon by Denver City Council	9-15	34
$15,000,000 Natural Gas Line to Serve San Francisco	9-15	76
Willson, C. O.—Manufacturing Gasoline in Seminole	9-15	128
Mandelbaum, M. R.—Foreseeing Gasoline of Tomorrow	10-6	31
Dameron, James H.—Hazardous Drilling in Swamp Area	10-6	31
Dameron, James H.—Natural Gas Development in Texas	10-6	30
Easton, H. D.—Largest Gas Field Due to a Fault	10-6	32
Ziegenhain, W. T.—Natural Gasoline as Domestic Fuel	10-20	173
Bush, R. D.—Conservation of Natural Gas in Production	10-27	68
Big Decrease in Gasoline Stocks Shown by Government Report	11-3	29
Duvall, J. W.—House Heating With Gas in Southwest	11-10	76
Sillers, D. A.—Keeping Gas from Freezing at Well	11-10	146
Bauer, C. Max—Gas Big Factor in Texas Panhandle	12-1	48
Merrill, H. E.—Method of Mixing Natural and Manufactured Gas	12-1	82
Garman, R. W.—Report on Quality Survey of California Gasoline	12-1	217
Palmer, Wallace G.—Production of Natural Gasoline by the Conservation of Vapors	12-1	227
Kaye, Embry—Natural Gasoline as Chemical Material	12-8	62
Jones, William F., Jr.—House Heating with Gas Needs Study and Service	12-8	68
Haseman, W. P.—Value of Gas in Petroleum Production	12-8	96
Gard, C. D.—Determining Gasoline Vapor Tension	12-8	138

NEW STRUCTURES, ANTICLINES, DOMES, ETC.

	Date	Page
Lockwood, C. D.—Will Test Glade Anticline, Colorado	7-14	30
Williams, Neil—Pine Island Trinity May be Prolific	7-14	31
Salt Dome Theory Big Factor in Utah	7-14	33
Lockwood, C. D.—Hendricks Pool is Already a Big Field	8-11	29
Stockman, L. P.—New Zone Believed Found at Seal Beach	8-11	31
Williams, Neil—Starks Dome is Making Oil History	9-29	185
Cadman, W. K.—Golden Lanes of Greenwood County	12-29	241

OIL BURNING

	Date	Page
Sales of Domestic Oil Burner Grow	9-29	192
Fanning, N. O.—Domestic Oil Burner Being Aided by Oil Companies	10-13	150
Use of Fuel Oil by Railroads Less; Diesel Demand Greater	11-24	128

OSAGE LEASE SALES

	Date	Page
McIntyre, James—Burbank Maintains Its Prominence	12-8	75

PRODUCTION METHODS

	Date	Page
Dwyer, J. L.—Air-Gas Lift Big Factor in Production	8-4	26
Torrey, Paul D.—Discoveries in Flooding Operations	9-1	34
Dwyer, J. L.—Core Drilling Discovers Many Pools	9-29	56
Vietti, W. M. and Oberlin, Wm. A.—Problems in Handling Panhandle Oil	10-20	120
Peake, A. W. and Prior, F. O.—Use of Electricity in Wyoming Grows	11-3	78

(Continued on Page 115)

ursday, Jan

Page
37
50
132
134
145
155
30
107
24
110
46
46
158

263

s

Page
238
87
122
122

132
39

275

Page
66
122
150
37
40
142
39

73
80
228
138
37
70
90
166
132
145
151

34
76
128
31
31
30
32
173
68
29
76
146
48
82
217

227
62

68
96
138

Page
30
31
33
29
31
185
241

Page
192
150
128

Page
75

Page
26
34
56

120

78

PRODUCTION METHODS—(Continued)

	Page	Date
Brandenthaler, R. R., E. L. Rawlins and T. W. Johnson—Standardizing Gas Wells Open Flow	11-3	82
Dwyer, J. L.—Varied Production Methods at Garber	11-24	34
Great Progress in Recovery of Oil	12-1	175
Dwyer, J. L.—More to Drilling Than Boring a Hole	12-1	200
Hough, John F.—Fundamental Conditions in Cementing Water Wells	12-15	85
Walker, Morgan—Dewatering of Gas Wells Serious Problem in Production	12-29	257

PRODUCTION—GENERAL

	Date	Page
McIntyre, James—An Active Half Year in the Field	7-28	93
McIntyre, James—Country Produced 444,522,797 Bbls.	7-28	97
Rowley, Andrew M.—Larger Stocks of Crude to be Needed	8-4	27
Greater Seminole Area Produced 74,874,235 Bbls. One Year	8-4	30
McIntyre, James—Oklahoma-Texas Leading Producers	8-25	40
Texas Gross Production, Second Quarter	8-25	91
Oklahoma Production, Second Quarter	8-25	109
873,537,263 Bbls. of Oil Produced in U. S. in 12 Months	9-1	136
McIntyre, James—Crude Oil Production May Exceed 900,000,000 Bbls.	106	111
Production of N. Mex. for August	10-13	90
Garfias, Valentin—World Production in 1927 Placed at 1,229,500,000 Bbls.	10-13	159
Dwyer, J. L.—Eastern Burbank Production Trend	11-10	32
Oklahoma Production Third Quarter	11-24	79
Texas Production, Third Quarter	11-24	91
McIntyre, James—Drilling Costs Increase 300 Per Cent	12-1	169
McIntyre, James—Many Wells Start With Small Output	12-1	184
McIntyre, James—Carter Led Oklahoma and Gulf was First in Texas	12-1	285
Production for 12 Months Has Passed 900,000,000 Bbl. Mark	12-1	285
McIntyre, James—Burbank Maintains Its Prominence	12-8	75

CALIFORNIA

	Page	Date
Eaton, J. E.—California Situation Much Improved	7-1	29
California Petroleum Statistics First Half of 1927	7-28	105
Eaton, J. E.—Big California Increase in 1928-1929	9-1	33
Eaton, J. E.—California Has Put Its House in Order	10-6	35

GULF COAST AND SOUTHWEST TEXAS

	Date	Page
Production Report and Pipe Line Runs from West Texas in June	7-21	119
Dameron, James H.—Proration Sought in Pecos County	8-18	34
Lockwood, C. D.—Pecos Operators Favor Proration Plan	9-15	29

MID-CONTINENT

	Date	Page
Dwyer, J. L.—Roxana's Deep Well Has Unique Record	7-14	34
Dwyer, J. L.—Drill Deeper But Get Less for Crude	7-21	39
Lockwood, C. D.—Hendricks Pool is Already a Big Field	8-11	29

ROCKY MOUNTAIN

	Date	Page
Lockwood, C. D.—Will Test Glade Anticline in Colorado	7-14	30
Salt Dome Theory Big Factor in Utah	7-14	33
Hager, Dorsey—Southeastern Colorado Possibilities	9-8	34

SEMINOLE

	Date	Page
McIntyre, James—Operators in Seminole Playing Fair	7-7	31
Corporation Commission Asked to Act	7-21	34
Rowley, Andrew M.—Proration Would Solve Chief Problem	7-28	38
Dwyer, J. L.—Consider Seminole Prorating Plan	7-28	38
Dwyer, J. L.—Seminole's Rapid Rise to Supremacy	7-28	100
Suspension of Gas Lift Would Reduce Production	7-28	194
Seminole Agreement Seems Likely	8-4	27
Dwyer, J. L.—Figuring on the Future of Seminole	8-4	28
Rowley, Andrew M.—State Approves Seminole Curtailment	8-11	35
Dwyer, J. L.—Seminole Wildcats Not Very Promising	8-25	37
Willson, C. O.—Seminole Gasoline Output Large	9-8	150
McIntyre, James—Seminole Field's Ultimate Production	9-29	77
Total Production of Greater Seminole Area	9-29	77
Bowlegs Leads in Natural Gasoline	9-29	80
Kraemer, A. J.—Major Source of High Gravity Crude	9-29	82
Dwyer, J. L.—Seminole Area Has Unique Record	9-29	85
McIntyre, James—Speculating on Seminole's Finish	10-20	154
Seminole Failures Cost $8,203,000	10-27	33
Dwyer, J. L.—All That Flows Not Gold at Seminole	12-1	187
Hinton, A. F.—Production Practices at Seminole	12-22	25
Dwyer, J. L.—Little River Wells Run Together	12-29	78

TEXAS PANHANDLE

	Date	Page
Dameron, J. H.—McIlroy Pool Big Factor in Maintaining Panhandle Output	7-14	143
Dameron, J. H.—Peculiarities of the Pecos Oil Field	9-1	29
Dameron, J. H.—Yates Pool Recovery 10,000 Bbls. Acre	9-15	33
Bauer, C. Max—Gas Big Factor in Texas Panhandle	12-1	48

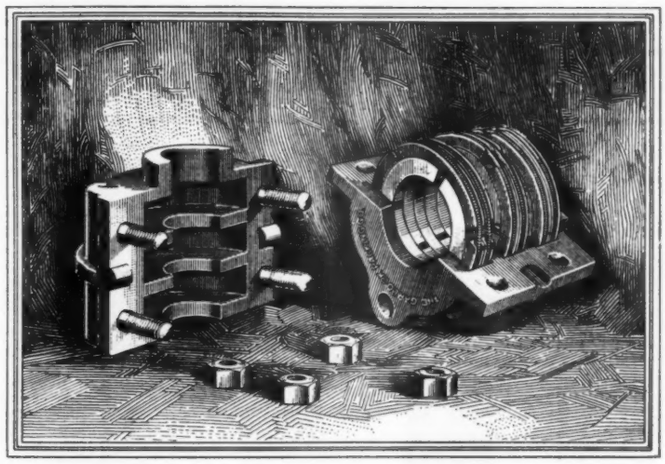
WEST TEXAS

	Date	Page
Lockwood, C. D.—What May be Expected in West Texas	10-27	29
Lockwood, C. D.—Pecos County Production Possibilities	11-24	33
Lockwood, C. D.—Excellent Record of Church-Fields	12-8	32

PROPERTIES, SPECIFICATIONS, TESTING

	Date	Page
Ziegenhain, W. T.—Burning Test for Kerosene	7-14	148
Rawlins, E. L.—Determine Specific Gravity of Gas	7-14	150
Ziegenhain, W. T.—A. P. I. Gravity Test	7-21	160
Kern, Charles E.—New Tests of Bureau of Standards	7-21	162
Ritchie, D. C.—Compare Starting Ability of Fuels	7-28	248
Bennett, H. T.—Varied Uses for Naphtha Reflected in Specification	10-6	148

(Continued on Page 116)



Years of Metal Packing Experience

Years of Experience Garlock metal packings are mechanically right from the standpoint of design and service. Their efficiency is the result of *twenty-five years of manufacturing experience* coupled with careful surveys made by our engineers to determine the proper designs for work against high temperatures and pressures existing in modern power units.

Research Department Our Research Department gives special study to the mechanical details of the packings; we also maintain chemical and physical laboratories to determine different composition of alloyed metals in reference to their hardness and wearing qualities.

Use of Metal Packings The use of metal packing is not limited. It will give superior and economical service in certain classes of mechanical equipment when used on valve stems and steam, air, gas, and ammonia piston rods.

Consultation Service As a part of our metal packing service, we maintain a Corps of Metal Packing Engineers who are at the call of our customers for consultation on special or difficult metal packing problems.

Garlock Metal Packings

THE GARLOCK PACKING COMPANY, PALMYRA, N. Y.

—Sales Offices in Principal Industrial Centers

Donovan Boilers are Consistently Good

Donovan A. S. M. E. Code Oil Country Boiler

SWORN BY — NOT AT!

In the Tonkawa field, Oklahoma, is a battery of old DONOVANS. They have been on that job over four years, day in and day out.

The operator has this to say about them:

"These DONOVANS are dandy steamers and stand up under hard work to a surprising degree. In spite of bad water, we have had entire satisfaction and I like them fine."

Each DONOVAN is designed and built to deliver the goods and to minimize the effects of unfavorable operating conditions. Give them half a chance and you will be repaid many times over in long and faithful service.

These are boilers to swear by—not at.

Manufactured by

DONOVAN BOILER WORKS, INC.
PARKERSBURG, W. VA.

NEW YORK OFFICE—30 Church Street
FRICK-REID SUPPLY COMPANY
Mid-Continent Distributors
GREAT NORTHERN TOOL & SUPPLY CO.
MIDLAND IRON WORKS
Montana Distributors

All Leading Supply Houses Throughout the Eastern Fields Handle

DONOVAN QUALITY PRODUCTS
NONE BETTER

PROPERTIES, SPECIFICATIONS, TESTING—(Continued)

	Page	Date
Warner, Lester O.—Suggest New Standard for Gas Testing	12-1	272
Ziegenhain, W. T.—Tests show Gasoline More Volatile	12-15	188
Odell, William—Propane and Butane to Enrich Gas	12-22	26
Chemical, Coal and Oil Combinations	12-29	140

REFINERY AND CHEMICAL METHODS

	Page	Date
Willson, C. O.—New Method of Reducing Evaporation	7-7	140
Phillips Perfects New Gasolines	7-28	30
Raigorodsky, Paul—Rectification of Unstable Gasoline	7-28	228
Greenwald, H. P.—Extract Methane from Natural Gas	8-4	138
Flowers, Alan E., Ford H. McBerty and Melvin A. Dietrich—Re-refining Dry Cleaners Solvent	8-11	148
Williams, Neil—Complete Changes at Crystal Plant	8-18	142
Ashworth, A. A.—Pipe Still for Laboratory Testing	8-18	162
Burke, C. R.—Products from Crude Oil and Gases	9-1	140
Garvin, Martin J., Foster, Arch L.—Apparatus for Vacuum Distillation	9-8	130
Wadsworth, J. M.—Contact Filtration of Lubricants	9-22	56
Kaufman, H. L.—Perfect New Method to Remove Coke	9-22	206
New Principle in Contact Filtration	9-22	210
Kern, Charles E.—Improvement in Laboratory Apparatus	9-22	213
Willson, C. O.—New Methods in Gasoline Manufacture	9-22	214
Sullivan, F. W., Jr., W. J. McGill, August French—Heat of Solution of Paraffin Wax	9-22	364
Bierce, E. C.—Advantage of Contact Filtration	9-29	191
Lane, F. W. and John M. Devine—Detection of Sulphur in Petroleum	10-20	160
Willson, C. O.—Towers for Small Crude Oil Battery	10-27	134
Merrell A. Yountz and Philip P. Perkins—Pure Sulphur in Naphtha Solutions	11-3	130
Meeting Sulphur Oil and Gas Problems	11-10	29
Young, Horace J.—Corrosion Detected by D. O. C. Test	11-24	146
Willson, C. O.—Adaptability in Cracking Operation	12-1	J-14
Ziegenhain, W. T.—Great Progress Made in Refining Oil	12-1	178
Halloran, R. A.—Method of Refining Cracked Naphtha	12-8	36
Egloff, Gustav and Jacque C. Morrell—Reagents for Controlling Corrosion	12-8	80
Howard, F. A. and N. E. Loomis—Advantages of Vacuum Distillation	12-8	95
Davis, W. N.—Recovery of Acid from Sludge Oil	12-8	109
Gard, C. D.—Determining Gasoline Vapor Tension	12-8	138
Laulhere, B. M., W. M. Young—Importance of Barometic Pressure	12-15	156
Holler, H. D.—Studying Corroding Action of Soils	12-29	45
Schmidt, Ludwig—Testing Reduction of Breathing Loss	12-29	194
Rowsey, G. L., J. F. Whitehurst—Lead Sulphide Treating in Refining	12-29	250

REFINERIES, OPERATIONS, MARKETING

	Page	Date
Funk, I. B.—Progress in Gasoline Manufacture	7-7	122
Egloff, Gustav and Jacque C. Morrell—Refining of Ventura Avenue Crude	7-14	131
Willson, C. O.—To Market Natural Gasoline Direct	7-21	37
Fanning, L. M.—Sustain Validity of Trumble Patents	7-21	40
Refineries of Western Hemisphere	7-21	153
Survey of Refineries in Foreign Countries	7-28	79
Diehl, John C.—Development of Measurement of Gas	7-28	80
Fanning, N. O.—Export Market for Bulk Oil Growing	7-28	139
Willson, C. O.—Low Refined Prices First Half Year	7-28	144
Petroleum Refining in Foreign Countries	8-18	80
Survey of Refineries in Foreign Countries	8-25	88
Smith, H. M.—Dewaxing Paraffin Base Crude Oils	9-15	146
Delbridge, T. G.—Developments in Petroleum Refining	9-22	58
Ziegenhain, W. T.—Many Type Tanks for Refineries	9-22	205
Roch, Fred C.—Comparison of Towers in Refining	9-22	216
Motley, Ralph E.—Correcting Unsafe Plant Practices	10-6	130
Poole, F. M.—Automatic Control of Temperature	10-13	34
Thomas, P. W.—Fuel Economy in Refinery Operation	10-13	82
Henriksen, A.—Many Factors in Treating Light Oils	10-13	130
Lederer, E. R.—Operating Contact Filtration Plant	10-13	150
Brewster, Frank M.—Paraffin Troubles in Eastern Fields	10-20	119
Reistle, C. E., Jr—Handling Congealing Oil and Paraffin	10-20	124
Many Refineries Installing Antiknock Measuring Device	11-3	135
Rissinger, T. T.—Care of Pumps in Gasoline Plants	11-10	154
Hopkins, G. R.—Fuel Costs at Refineries Decreasing	11-10	154
Francis, Dr. C. K.—Refining of West Texas Crudes	11-17	40
Waldo, J. B.—American Returned from Japan tells of Refining Progress	11-17	138
Ziegenhain, W. T.—Cost of Refining Barrel of Crude Oil	12-1	151
Willson, C. O.—Gasoline and Crude Price Relationship	12-1	158
Mead, Brian—Corrosion of Refinery Equipment	12-8	35
Willson, C. O.—Adapt New Towers to Shell Stills	12-8	158
Willson, C. O.—Important Market Changes Under Way	12-15	29
Egloff, Gustav—Combating Corrosion in Refineries	12-15	34
Good, F. B.—Water Treatment at Gasoline Plants	12-22	97
Gill, John D.—Credit in Sale of Refined Products	12-22	128
Frueauff, Harry D.—New Uses for Petroleum Products	12-22	146
Willson, C. O.—Mid-Continent as Refining Center	12-29	230

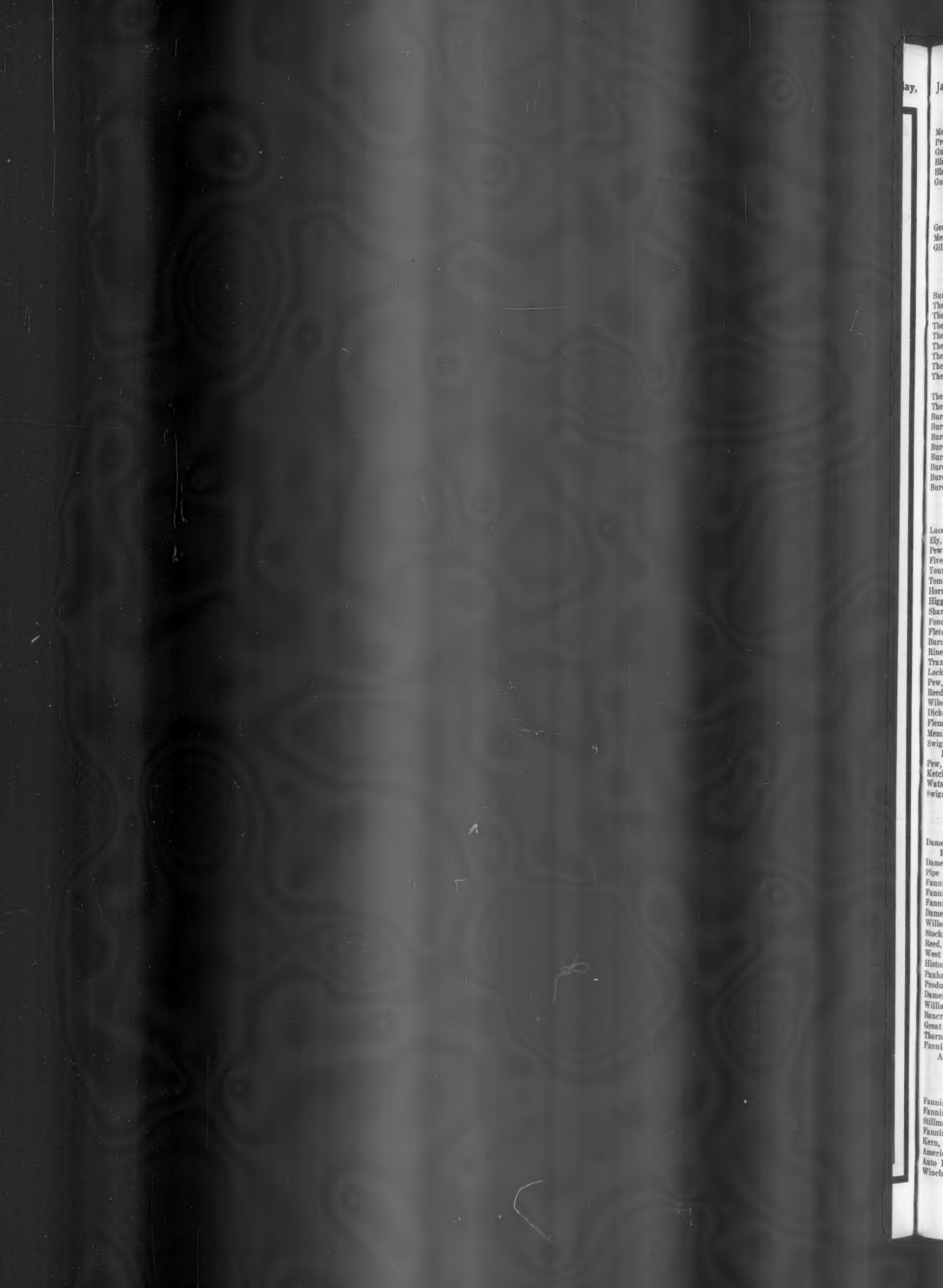
RESEARCH AND PUBLIC RELATIONS

	Page	Date
Kern, Charles E.—Progress in Scientific Side of Oil Industry	7-28	139
Processing of Oil from Coal Growing	8-4	118
Pratt, Wallace E.—Recent Research in Making of Oil	9-29	59
Smiley, Thomas F.—Mines Bureau has Experimental Well	11-10	33
Mud Samples from Bottom of Sea Being Analyzed in Oil Research	11-24	154
Rowley, Andrew M.—Science Employed in Search for Oil	12-1	172

RESERVES AND CONSERVATION

	Page	Date
Borah, Senator W. E.—Senator Borah Urges Oil Conservation	7-7	54
Maher, Hugh A.—Conservation Work in California	9-8	97
Ingram, Tolbert R.—Organize Study of Gas Conservation	9-22	53
Eaton, J. E.—Reserves of Nation Ample for Future	12-1	45
McIntyre, James—Extent of Oil Reserves Misunderstood	12-1	188
Kern, Charles E.—How Industry Has Conserved Oil	12-1	203
Nowels, K. B.—Effect of Pinching on Gas, Oil Ratio	12-1	254

(Continued on Page 119)



RUNS, SHIPMENTS

	Date	Page
McGreal—Gulf Port Shipments in May	7-7	154
Production Report and Pipe Line Runs for West Texas in June	7-21	119
Gulf Port Shipments Increased in June	7-28	204
Blardone, George—Mexican Shipments for June	8-11	164
Blardone, George—Mexican Shipments for July	9-8	144
Gulf Port Shipments Increase	11-10	112

SHALE OIL AND COAL CARBONIZATION

	Date	Page
Germany's Progress in Bergius Process of Liquefying Coal	7-7	150
Methods of Refining Shale Oil Being Studied	9-29	145
Gilmore, R. E.—Gasoline from Shale Oil and Bitumen	10-27	154

STATISTICS DEPARTMENT AND INDEX

(Statistical Articles Also Appear Under Other Headings.)

Bureau of Mines Report (monthly).		
The Oil and Gas Journal Production Report (weekly).		
The Oil and Gas Journal Field Operations Report (weekly).		
The Oil and Gas Journal Detail Report of Operations (monthly).		
The Oil and Gas Journal Production by Gravity Report (monthly).		
The Oil and Gas Journal Mexican Shipment Report (monthly).		
The Oil and Gas Journal Mid-Continent Refinery Run Report (monthly).		
The Oil and Gas Journal Major Production Report (monthly).		
The Oil and Gas Journal Oklahoma, Kansas and Eastern Pipe Line Report (monthly).		
The Oil and Gas Journal Semi-Annual Number	7-28	..
The Oil and Gas Journal Index—January-June, Inclusive	7-21	105
Bureau of Mines Report for May	7-7	32
Bureau of Mines Report for June	8-11	104
Bureau of Mines Report for July	9-8	79
Bureau of Mines Report for 1926	9-8	109
Bureau of Mines Report for August	10-6	142
Bureau of Mines Report Shows Decrease in Gasoline Stocks	11-3	29
Bureau of Mines Report for September	11-10	80-A
Bureau of Mines Report for October	12-15	73

STANDARDIZATION

	Date	Page
Lucey, Capt. J. F.—Responsibility is Put Up to Field	9-22	55
Ely, Edwin W.—Principles of Simplification and Standardization	9-22	57
Pew, Edgar J.—Large Saving from Standardization	12-1	152
Five Years' Standardization Progress	9-22	113
Young, C. A.—Functions of Standardization Division	9-22	119
Tompson, G. A.—The Purchasing Agent's Viewpoint	9-22	122
Horning, H. L.—Automotive Industry Standardization	9-22	124
Higgins, Edwin—Standardization Work in California	9-22	126
Sharpenberg, C. C.—Progress in Wire Lines and Cordage	9-22	128
Fondren, W. W.—Rig and Derrick Standardization	9-22	136-A
Fletcher, H. W.—Vital Importance of Uniform Gauges	9-22	136-L
Burnett, Robert N.—Problem of Selecting Sucker Rods	9-22	137
Riney, A. H.—Belting Committee Had Difficult Task	9-22	138
Trax, David L.—Care of Oil Field Belting Important	9-22	144
Lockhart, H. J.—Inception, Progress and Consummation	9-22	147
Pew, J. Edgar—Specifications Completed on All Pipe	9-22	155
Reed, Ralph J. and Daw, Mark W.—Standard Still Tanks for Storage	9-22	169
Wilson, R. A.—Rotary Drilling Accomplishments	9-22	177
Dickey, S. J.—Standardization of Oil Field Boilers	9-22	188
Fleming, Thomas, Jr.—Cable Tool Joints Standards Finished	9-22	218
Members of Standardization Committee of A. P. I.	9-22	220
Swigart, T. E., Suman, John R., Roberts, P. B.—A. P. I. Pumping Equipment and Engines	9-22	267
Pew, J. Edgar—Large Saving from Standardization	12-1	152
Ketchum, R. M.—Purchasing A. P. I. Standardized Material	12-8	83
Watson, C. D.—Some Advantages of Standardized Rigs	12-8	88
Swigart, T. E.—Value of Use of Pumping Standards	12-8	114

TRANSPORTATION AND STORAGE

	Date	Page
Dameron, J. H.—Work Progressing on Gas Trunk Lines from Texas Panhandle	7-14	140
Dameron, J. H.—Gas Trunk Lines to Cost $50,000,000	7-21	36
Pipe Lines to Cost Many Millions	7-28	120
Fanning, L. M.—Details of Amarillo-Denver Lines	8-4	63
Fanning, N. O.—Proposes Pipe Line to Pacific from Mid-Continent	8-4	112
Fanning, N. O.—Little Expansion in Tanker Fleets	8-4	138
Dameron, J. H.—West Texas Banner Pipe Line Year	8-11	34
Willson, C. O.—Transportation in the Oil Industry	8-25	38
Stocks in West Texas Increase 1,000,000 Bbls.	8-25	127
Reed, Ralph J. and Daw, Mark W.—Standard Steel Tanks for Storage	9-22	169
West Texas Stocks Increase 1,500,000 Bbls. in August	9-29	137
Historic Pipe Lines Taken Over by Standard	9-29	191
Panhandle Crude Stocks Drop First Time in August	9-29	194
Production and Steel Storage for August in New Mex.	10-13	90
Dameron, James H.—Humble Performs Engineering Feat	10-27	34
Williams, Neil—Dixie Gulf Gas Lays 2 Miles of Pipe Daily	10-27	72
Bancroft, D. H.—Big Gas Line to St. Louis Announced	11-24	55
Great Service Rendered During War	12-1	195
Thornhill, W. H. T.—Pipe Line Corrosion is Big Problem	12-22	64
Fanning, N. O.—Future Value of Pipe Lines Place in Industry is Assured	12-29	266

UTILIZATION—AUTOMOTIVE, ETC.

	Date	Page
Fanning, N. O.—Aviation Advanced Five Years by Lindbergh Feat	7-7	156
Fanning, N. O.—Highway Expansion to Measure Gasoline Consumption	7-14	102
Stillman, K. W.—Big Gain in Motor Car Registration	7-28	77
Fanning, N. O.—Motor Bus Lines from N. Y. to Boston, Miami, etc.	8-11	73
Kern, Charles E.—New Uses for Petroleum Products	8-18	58
American Airplane Production Doubled in Present Year	12-29	143
Auto Registrations in Foreign Lands	12-29	152
Winchester, J. F.—Motor Transport in Oil Industry	12-29	244

You can prove the value of Page-Armco Welding Wire and Electrodes for yourself and your own job.

Careful tests will show you that this carefully processed and thoroughly shop tested wire gives better welding results. What is more, it costs less to use when you figure complete welding costs of time and material. Workmen will tell you Page-Armco Welding Wire is easier to use. It will pay you to investigate.

PAGE STEEL AND WIRE COMPANY
Bridgeport Connecticut

An Associate Company of the American Chain Co., Incorporated

District Offices:
Chicago New York Pittsburgh San Francisco

PAGE-ARMCO
PROCESSED
Welding Wire and Electrodes